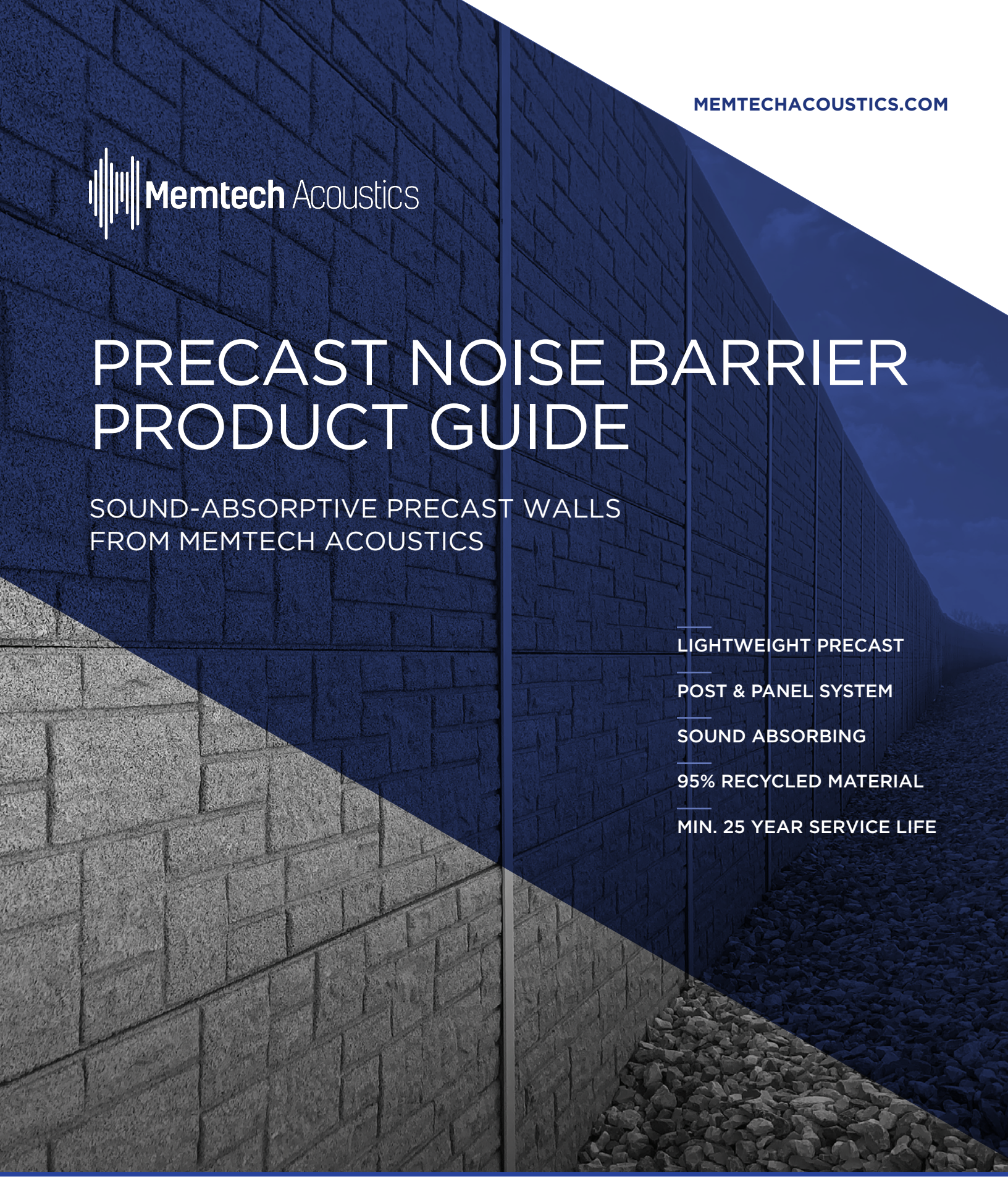
MEMTECHACOUSTICS.COM

Memtech Acoustics

PRECAST NOISE BARRIER PRODUCT GUIDE

SOUND-ABSORPTIVE PRECAST WALLS FROM MEMTECH ACOUSTICS



- LIGHTWEIGHT PRECAST
- POST & PANEL SYSTEM
- SOUND ABSORBING
- 95% RECYCLED MATERIAL
- MIN. 25 YEAR SERVICE LIFE

Memtech Acoustics supplies noise barrier and retaining wall systems that serve the needs of the transportation, building and energy sectors.

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2175 Avon Industrial Dr., Rochester Hills, MI 48309

Drawings and product details are for information and/or illustrative purposes only, and may vary.
Please contact your local Memtech representative for the most current product information.

ABSORPTIVE NOISE WALL SYSTEMS

Memtech Acoustics supplies absorptive noise wall systems for projects with demanding noise compliance requirements.

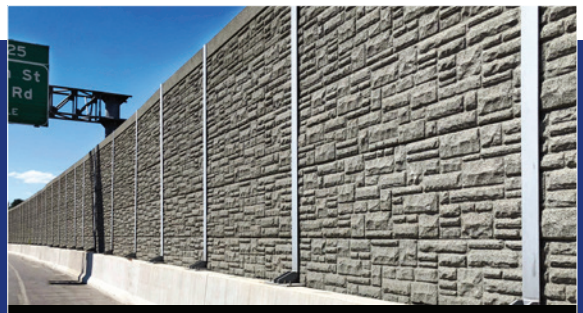
When specifying absorptive barriers, the sound-absorbing panels reduce reflected sound. In areas where noise is not the primary concern and privacy or security is more critical, the barrier can limit visibility to the public while offering a higher level of protection with a 2-hour fire resistance rating, protecting the owner's assets and investments and supporting the safety of the community.

Completely customizable to the wall design, the system can reach required heights, lengths and unique design integrations.



THE PANEL MATERIAL

The panels are made of a durable, lightweight precast material. Composed of natural and recycled material, it is a more sustainable alternative to standard concrete. Made of chemically neutralized and mineralized organic softwood shavings which are specially processed to an acoustically engineered size. When bonded together under pressure with Portland cement, an absorptive panel is born.



A special blend of wood shavings & cement make up this unique precast product.

Contact **Memtech Acoustics** for samples and project support.

Applications

- Roads & highways
- Railway corridors
- Building enclosures or barriers
- Utility substations
- Residential developments
- Industrial & commercial sites

Features

- Noise absorptive of 0.70 - 0.90 NRC*
- Up to 46 STC Rating
- Lightweight & easy to install
- Non-combustible
- Vermin & rot-proof
- Freeze-thaw resistance

Memtech Acoustics provides standard engineered noise wall systems for reliable community noise protection across projects ranging in size and complexity. The systems are valued for their versatility and high-quality finish that provides safety, security, and peace of mind.

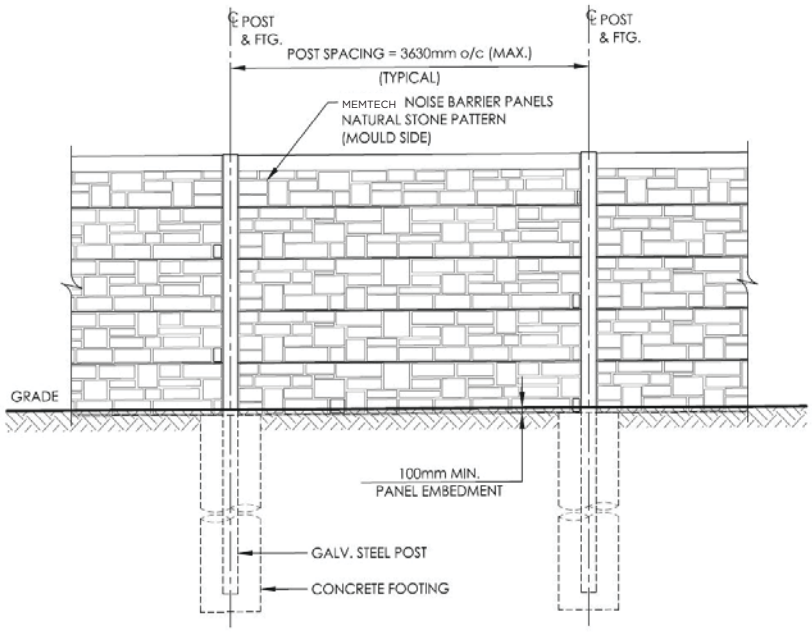
NB12 SYSTEM

The NB12 is a post and precast panel noise barrier system with standard centre-to-centre post spacing up to **12ft (3.63m)**. The NB12 system can be engineered for wall heights up to 33ft (10m) or more. Panel lengths accommodate up to 12ft (3.63m) long by 20in (0.5m) high.

The standard NB12 panel system is sound absorptive on both sides with an optional integrated traffic barrier. It can also incorporate single sided absorptive or reflective retaining wall panels or transparent elements.

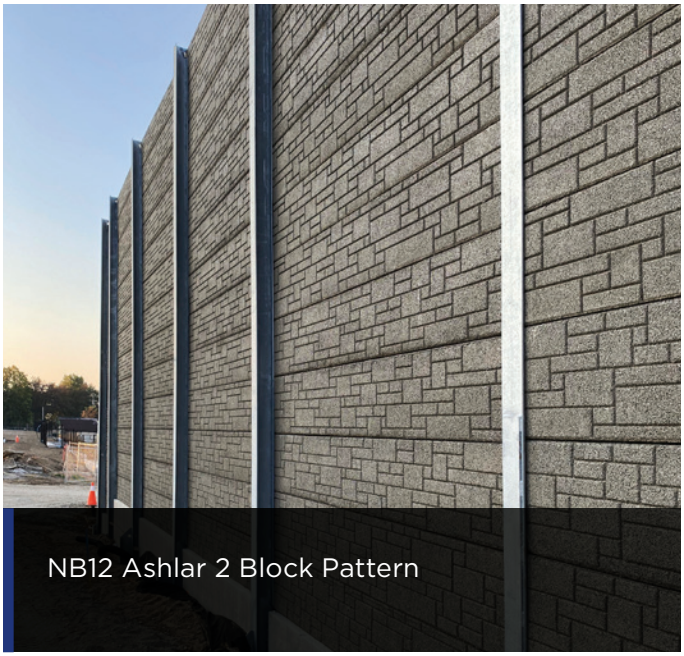
The NB12 system is flexible in many ways. It is ideal for slope conditions, directional changes, and difficult site access situations. Precast panels can easily be modified for short bays on site.

NB12
Simplified Technical Drawing





NB12 Custom Brick Pattern



NB12 Ashlar 2 Block Pattern

NB15 SYSTEM

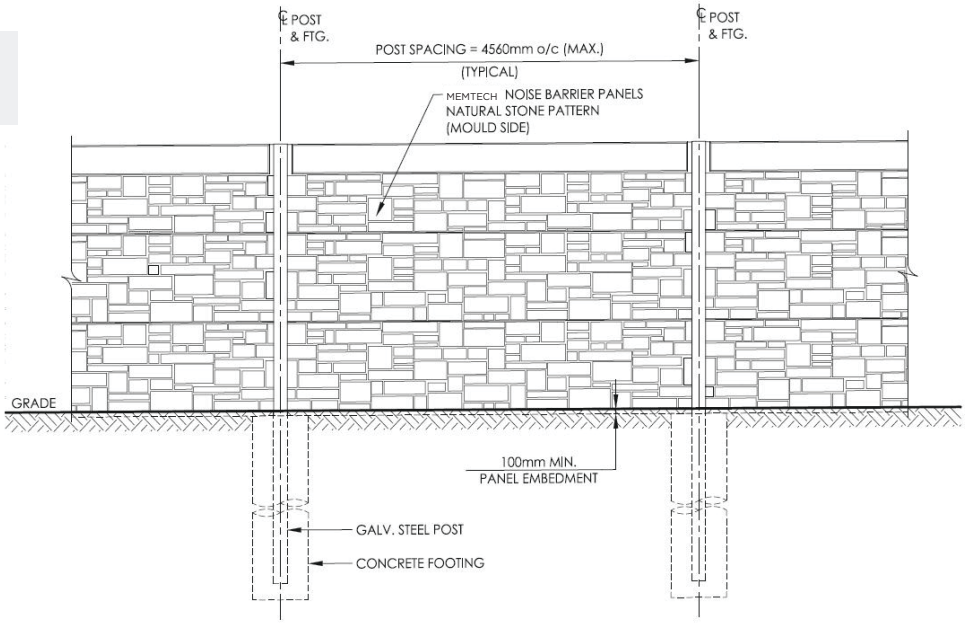
The NB15 is a post and precast panel noise barrier system with standard centre-to-centre post spacing being **15ft (4.56m)**. The NB15 system can be engineered for wall heights up to 43ft (13m) or more. Panel lengths accommodate up to 15ft long by 18-48in high.

The standard NB15 system is noise absorptive on one or both sides. It can also incorporate transparent elements, and integrated retaining wall panels.

The NB15 system offers 20% fewer posts than the NB12 system, which can result in meaningful cost savings depending on soil conditions and project requirements.

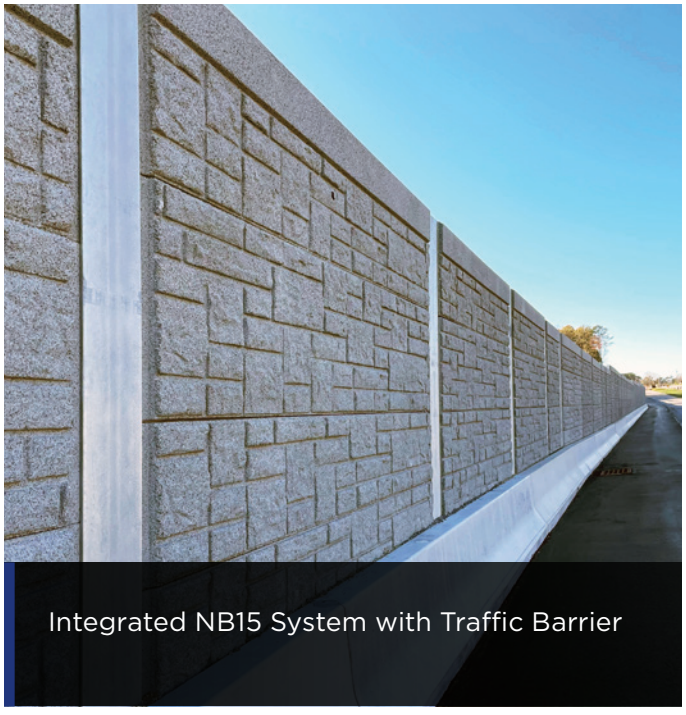
The NB15 system is available with a **fire-rated barrier system.** Contact Memtech Acoustics for more information.

NB15
Simplified Technical Drawing





Fire-rated barrier system utilizing NB15 panels



Integrated NB15 System with Traffic Barrier

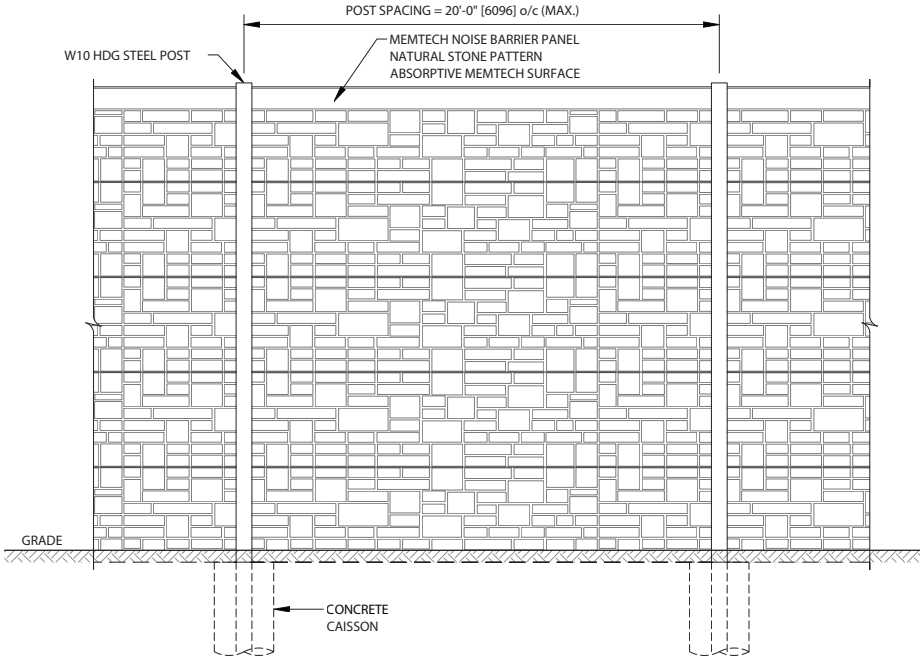
NB20 SYSTEM

Typical patterns consist of plain or natural stone. The NB20 system offers noise absorption on both sides of the wall.

This is the longest post spacing offering double sided sounds absorption. NRC 0.8 achievable on each side.

The NB20 system can allow for installation efficiencies where site conditions require long straight runs with minimal grade changes.

NB20
Simplified Technical Drawing



NB24 SYSTEM

The NB24 is a custom post and precast panel noise barrier system with customized bay spacing allowing for posts to be **24ft (7.3m)** centre-to-centre. Precast posts are an available option to wide flange HDG steel posts.

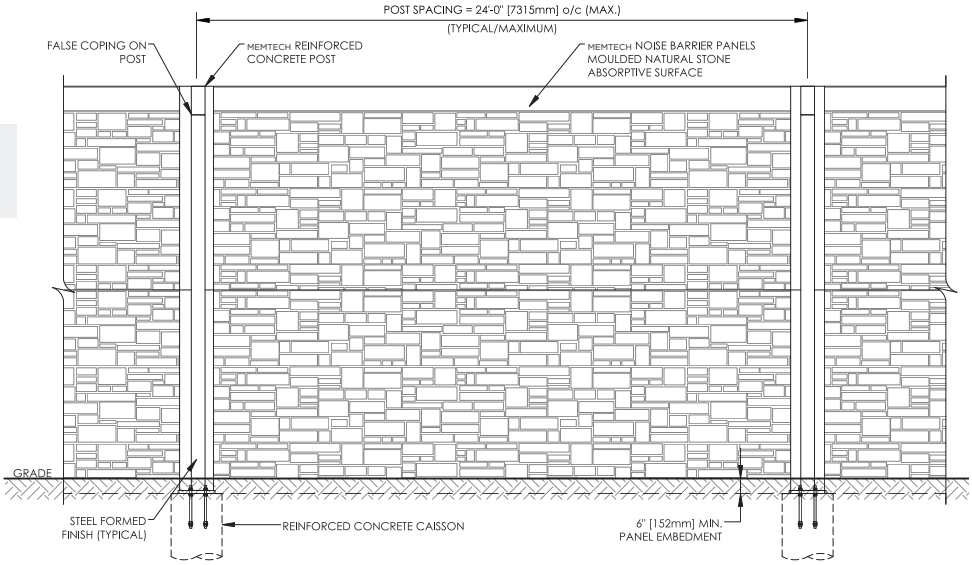
The NB24 system can be engineered for wall heights up to 36ft (11m) or more. Custom precast panels are available up to 24ft (7.3m) long by 84in (2.2m) high.

The NB24 system offers noise absorption on one side. It can also incorporate transparent elements, and integrate retaining wall panels.

The NB24 system offers the longest post spacing of the available systems which can result in meaningful cost savings for projects including straight runs of the wall with minimal grade change.

The NB24 system is ideal for long straight runs of wall with minimal sloping grades where noise absorption is required on one side of the wall.

NB24
Simplified Technical Drawing



CUSTOM OPTIONS

Memtech Acoustics offers a range of accessories and custom designs beyond the standard steel post and precast panel systems when a particular aesthetic needs to be achieved.





Post Accessories

1. Pier Caps
2. Pier Facings
3. End Caps
4. Post Facings

Functional Accessories

In addition to a wide range of standard textures and patterns, custom systems can be developed to suit almost any aesthetic or functional requirement. Memtech's team can assist designers, specifiers and owners at the project design stage to develop a custom solution where required.

The most common accessories include:

- Vehicle access gates
- Man doors
- Drainage openings and grates
- Fire hose access openings
- Flood control panels
- Pedestrian walkway entrances
- Custom feature sign
- Painted posts



Vehicle Access Gate & Door



The wall system can be integrated with **traffic barriers, retaining walls** and **transparent** panels.



Signature Panels

STANDARD PATTERNS & COLOURS

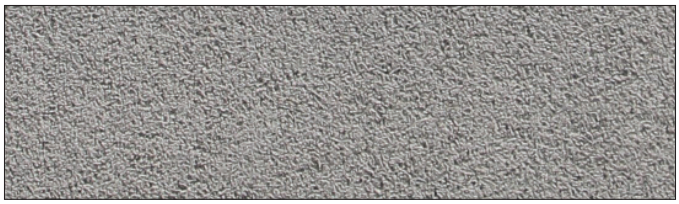
Memtech precast panels offer the same versatility as precast concrete. Choose from the standard patterns and colours below as a starting point, select from existing design inspiration, or work with Memtech to create a custom look.

Patterns

Standard patterns are based on the most basic molds available for the most efficient turnarounds.
Please contact us for your custom pattern inquiries.

Standard Panel Length Patterns

NB12 & NB15



PLAIN FLAT



NATURAL STONE



ASHLAR 2 BLOCK

Custom Panel Length Patterns

NB20



PLAIN FLAT



NATURAL STONE

NB24



PLAIN FLAT



NATURAL STONE



ROLLED ASHLAR

Colours

A collection of the most popular colours, the 6 swatches below are timeless options that blend seamlessly into the surrounding environment.



02589 TAN



1082D TAN



11988 BROWN



1004B NATURAL



09187 GREY



1538B GREY

Use this palette as a guide only.
The absorptive texture creates colour dimension and variation. It should also be noted that wall colours will vary during the day as they go from sun to part-sun to shade. Samples available upon request.